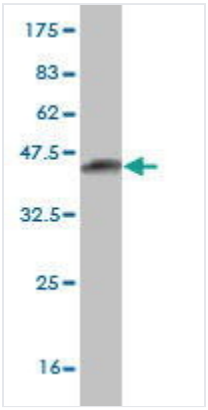
ATRX Antibody – Mouse Monoclonal

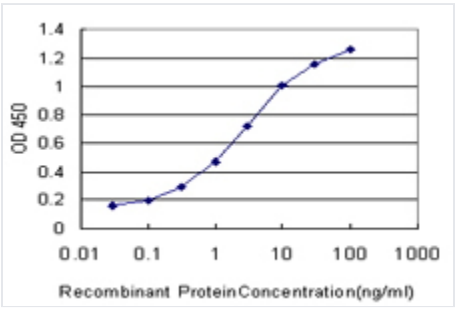
PRODUCT OVERVIEW

Product Name	ATRX, Monoclonal Antibody
Full Product Name	ATRX (Transcriptional Regulator ATRX, ATP-dependent Helicase ATRX, X-linked Helicase II, X-linked Nuclear Protein, XNP, Znf-HX, ATRX, RAD54L, XH2) (Biotin)
Product Gene Name	anti-ATRX antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3C9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ATRX.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	151,556 Da
OMIM	300032
3D Structure	ModBase 3D Structure for P46100
Immunogen	Partial recombinant corresponding to aa2311-2410 from human ATRX (NP_000480) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	FNLGALSAMSNQQLEDLINQGREKVVEATNSVTAVRIQPLEDIISAVWKENMNLSEAQVQALALSRQASQELDVKRREAIYNDVLTKQQMLISCVQRILM
Conjugate	Biotin
Product Categories/Family for anti-ATRX antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-ATRX antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-ATRX antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-ATRX antibody	The protein encoded by this gene contains an ATPase/helicase domain, and thus it belongs to the SWI/SNF family of chromatin remodeling proteins. The mutations of this gene are associated with an X-linked mental retardation (XLMR) syndrome most often accompanied by alpha-thalassemia (ATRX) syndrome. These mutations have been shown to cause diverse changes in the pattern of DNA methylation, which may provide a link between chromatin remodeling, DNA methylation, and gene expression in developmental processes. This protein is found to undergo cell cycle-dependent phosphorylation, which regulates its nuclear matrix and chromatin association, and suggests its involvement in the gene regulation at interphase and chromosomal segregation in mitosis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported.
Other Notes	Small volumes of anti-ATRX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATRX purchase	MBS6140754 is an antibody targeting ATRX. Also known as ATRX (Transcriptional Regulator ATRX, ATP-dependent Helicase ATRX, X-linked Helicase II, X-linked Nuclear Protein, XNP, Znf-HX, ATRX, RAD54L, XH2) (Biotin). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-ATRX antibody
Western Blot detection against Immunogen (36.74kD).



Testing Data of anti-ATRX antibody
Detection limit for recombinant GST tagged ATRX is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATRX. It may not necessarily be applicable to this product.

NCBI GI #	530788276
NCBI GeneID	546
NCBI Accession #	NP_000480
UniProt Primary Accession #	P46100
UniProt Secondary Accession #	P51068; Q15886; Q59FB5; Q59H31; Q5H9A2; Q5JWI4; Q7Z2J1; Q9H0Z1; Q9NTS3; D3DTE2
UniProt Related Accession #	P46100
GenBank Nucleotide #	NM_000489
NCBI Official Full Name	transcriptional regulator ATRX isoform 1
NCBI Official Synonym Full Names	alpha thalassemia/mental retardation syndrome X-linked
NCBI Official Symbol	ATRX
NCBI Official Synonym Symbols	JMS; SHS; XH2; XNP; ATR2; SFM1; RAD54; MRXHF1; RAD54L; ZNF-HX
UniProt Protein Name	Transcriptional regulator ATRX
UniProt Synonym Protein Names	ATP-dependent helicase ATRX; X-linked helicase II; X-linked nuclear protein; XNP; Znf-HX
Protein Family	Protein CHROMATIN REMODELING
UniProt Gene Name	ATRX
UniProt Synonym Gene Names	RAD54L; XH2; XNP

UniProt Entry Name	ATRX_HUMAN
NCBI Protein Information	transcriptional regulator ATRX; ATP-dependent helicase ATRX; DNA dependent ATPase and helicase; X-linked helicase II; X-linked nuclear protein; Zinc finger helicase; alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae); he
UniProt Comments for ATRX	ATRX: a global transcriptional regulator. Belongs to the SNF2 family of proteins, many of which modify gene expression via chromatin remodeling activity. Involved in the developmental silencing of imprinted genes in the brain. Contains one PxVxL motif, which is required for interaction with chromoshadow domains. This motif requires additional residues at -7, -6, +4 and +5 relative to the central V which contact the chromoshadow domain. Constitutive mutations in ATRX are associated with brain, facial, and genital abnormalities, and alpha thalassemia. Acquired mutations in ATRX have been observed in preleukemic conditions. Six alternatively spliced human isoforms have been described. Protein type: DNA repair, damage; Ubiquitin conjugating system; EC 3.6.4.12; Helicase Chromosomal Location of Human Ortholog: Xq21.1 Cellular Component: nucleoplasm; PML body; nuclear heterochromatin; nucleus Molecular Function: protein binding; DNA helicase activity; DNA binding; histone binding; zinc ion binding; chromatin binding; helicase activity; DNA translocase activity; methylated histone residue binding; ATP binding Biological Process: transcription, DNA-dependent; DNA damage response, signal transduction by p53 class mediator; positive regulation of telomere maintenance; DNA repair; Sertoli cell development; DNA duplex unwinding; replication fork processing; DNA recombination; chromatin remodeling; nucleosome assembly; DNA replication-independent nucleosome assembly; regulation of transcription, DNA-dependent; forebrain development; DNA methylation; spermatogenesis; positive regulation of transcription from RNA polymerase II promoter Disease: Alpha-thalassemia/mental Retardation Syndrome, X-linked; Mental Retardation-hypotonic Facies Syndrome, X-linked, 1; Alpha-thalassemia Myelodysplasia Syndrome
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